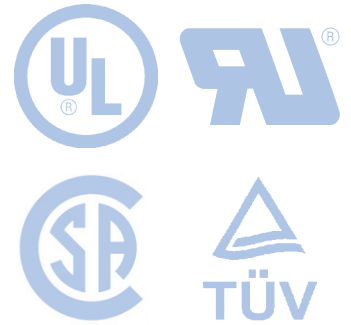


Techna CONTACTORS AND OVERLOADS

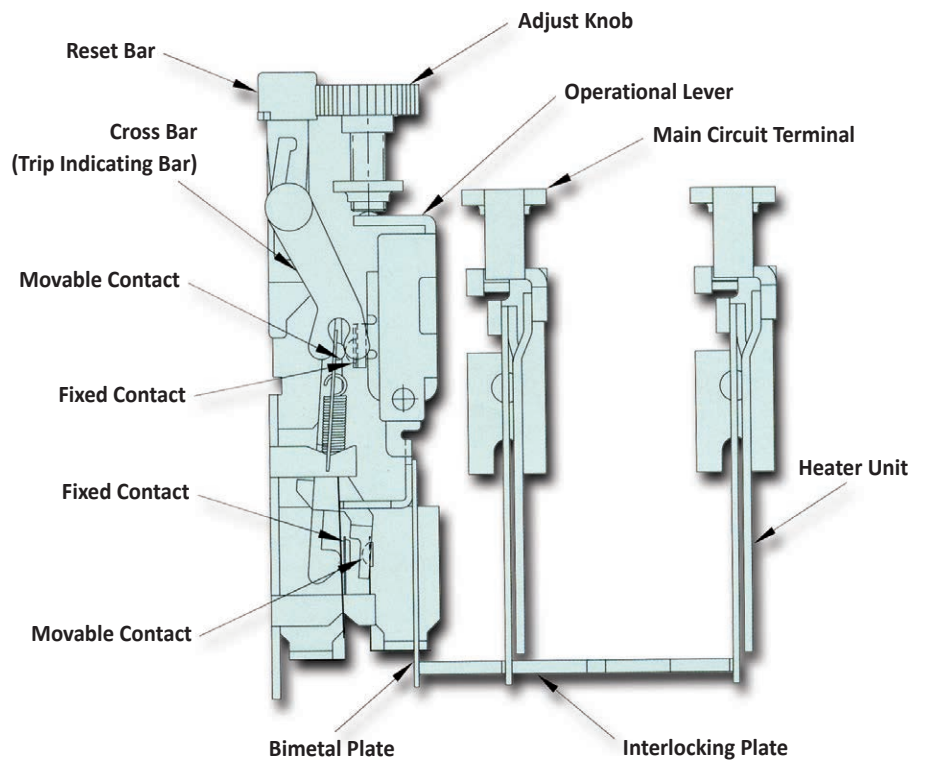
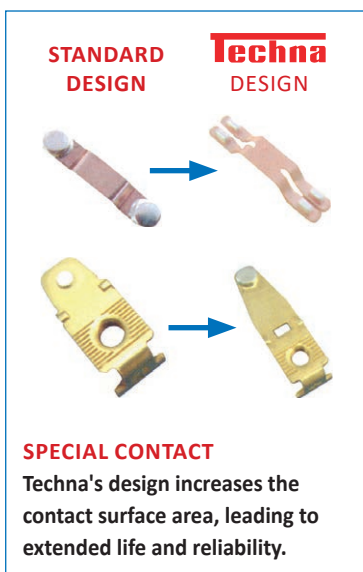
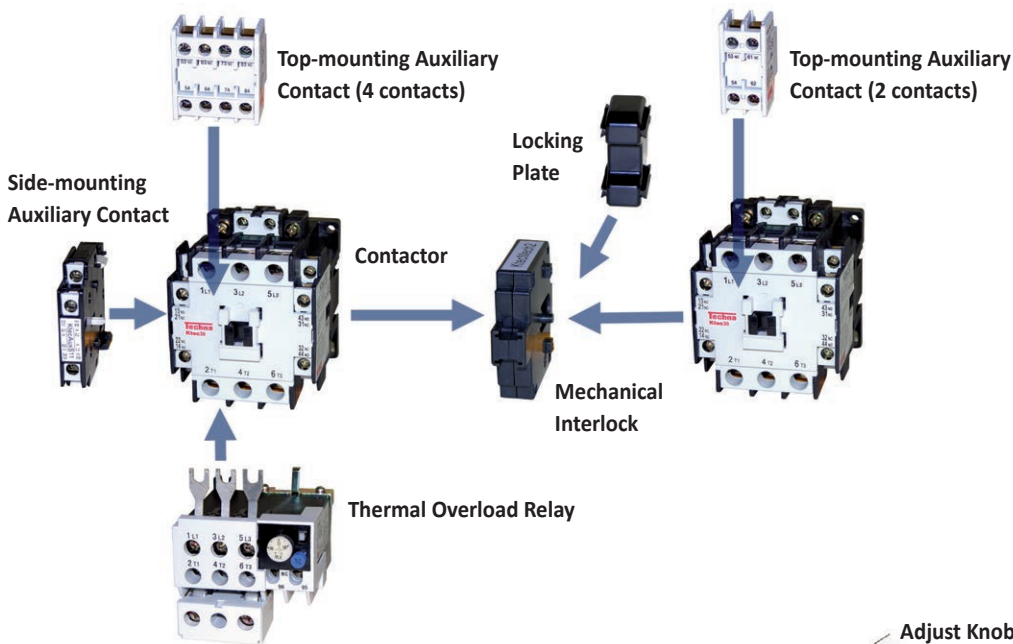
Ktec Contactors

Techna Ktec Series Contactors provide a complete solution for your contactor requirements. The range carries TUV, UL & CSA certification, for use in Europe, North America and Canada.

By using advanced contact design, product life and reliability is greatly enhanced. Combined with our Otec range of Thermal Overload Relays, we can meet all your switching requirements up to 315 kW/600 A.



Ktec Contactors



NOTE: For Ktec dimensional drawings please contact us or download them from our website.

AC Coil Contactors



NOTE: Type A = 4 pole version

Contactor Model			Ktec06/06A	Ktec09/09A	Ktec11/11A	Ktec12	Ktec15/15A
Corresponding Overload			Otec09	Otec09	Otec15	Otec15	Otec15
IEC60947-4-1 EN60947-4-1 DIN VDE 0660	Power Rating AC3 (kW/A)	240V	1.5 kW / 7.5 A	2.2 kW / 10.1 A	3.5 kW / 13 A	3.5 kW / 13 A	4.5 kW / 18 A
		380V	3 kW / 6.6 A	4 kW / 9 A	5.5 kW / 12 A	5.5 kW / 12 A	7.5 kW / 18 A
		440V	6 kW / 6.5 A	4 kW / 8.5 A	5.5 kW / 12 A	5.5 kW / 12 A	7.5 kW / 16 A
		550V	6 kW / 5 A	4 kW / 6.5 A	5.5 kW / 9 A	7.5 kW / 12 A	7.5 kW / 13 A
		660V	3 kW / 4 A	4 kW / 5 A	5.5 kW / 7 A	7.5 kW / 9 A	7.5 kW / 9 A
	Current AC1 (A)		20	20	20	25	25
UL508 CSA-C22.2	Power Rating AC3 (HP/A)	Single Phase					
		110-120V	0.25 HP / 5.8 A	0.5 HP / 9.8 A	0.5 HP / 9.8 A	0.75 HP / 13.8 A	n/a
		220-240V	1 HP / 8 A	1.5 HP / 10 A	2 HP / 10 A	2 HP / 12 A	n/a
		3-Phase					
		220-240V	2 HP / 6.8 A	3 HP / 9.6 A	3 HP / 9.6 A	5 HP / 15.2 A	n/a
	440-480V	3 HP / 4.8 A	5 HP / 7.6 A	7.5 HP / 11 A	7.5 HP / 11 A	n/a	
550-600V	3 HP / 3.9 A	5 HP / 6.1 A	10 HP / 11 A	10 HP / 11 A	n/a		
Current AC1 (A)		20	20	24	25	n/a	
Auxiliary Contacts			1NO or 1NC	1NO or 1NC	1NO or 1NC	1NO, 1NC or 2NO	1NO or 1NC
IEC60947-4-1 EN60947-4-1	Utilisation Category AC12	220-250V	3.3	3.3	1.6	1.6	1.6
		380-440V	1.9	1.9	0.95	0.95	0.95
		I _{th} (A)	10	10	16	16	16
UL			A600	A600	A600	A600, P600	A600
Mechanical Life			6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
Electrical Life			1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Maximum Ops/hr			1200	1200	1200	1200	1200

Techna CONTACTORS AND OVERLOADS



Contactor Model			Ktec16	Ktec21	Ktec25	Ktec30	
Corresponding Overload			Otec40	Otec40	Otec40	Otec40	
IEC60947-4-1 EN60947-4-1 DIN VDE 0660	Power Rating AC3 (kW/A)	240V	4.5 kW / 18 A	5.5 kW / 24 A	6.5 kW / 26 A	7.5 kW / 30 A	
		380V	7.5 kW / 18 A	11 kW / 21 A	12 kW / 25 A	15 kW / 30 A	
		440V	7.5 kW / 16 A	11 kW / 21 A	12 kW / 23 A	15 kW / 27 A	
		550V	7.5 kW / 13 A	11 kW / 17 A	12 kW / 20 A	15 kW / 22 A	
		660V	7.5 kW / 9 A	11 kW / 14 A	12 kW / 16 A	15 kW / 18 A	
	Current AC1 (A)		30	32	32	50	
UL508 CSA-C22.2	Power Rating AC3 (HP/A)	Single Phase	110-120V	1 HP / 16 A	2 HP / 24 A	2 HP / 24 A	2 HP / 24 A
		220-240V	3 HP / 17 A	3 HP / 17 A	3 HP / 17 A	5 HP / 28 A	
		220-240V	5 HP / 15.2 A	7.5 HP / 22 A	10 HP / 28 A	10 HP / 28 A	
		3-Phase	440-480V	10 HP / 14 A	15 HP / 21 A	15 HP / 21 A	20 HP / 27 A
		550-600V	10 HP / 11 A	15 HP / 17 A	15 HP / 17 A	30 HP / 32 A	
	Current AC1 (A)		30	35	40	50	
Auxiliary Contacts			1NO+1NC	1NO+1NC	1NO+1NC	2NO+2NC	
IEC60947-4-1 EN60947-4-1	Utilisation Category AC12	220-250V	1.6	1.6	1.6	1.6	
		380-440V	0.95	0.95	0.95	0.95	
		I _{th} (A)	16	16	16	16	
UL			A600, P600	A600, Q300	A600, Q300	A600, Q300	
Mechanical Life			6,000,000	6,000,000	6,000,000	6,000,000	
Electrical Life			1,200,000	1,200,000	1,200,000	1,200,000	
Maximum Ops/hr			1200	1200	1200	1200	

Techna CONTACTORS AND OVERLOADS



Ktec35	Ktec40	Ktec50	Ktec60	Ktec80
Otec40	Otec40	Otec80	Otec80	Otec80
9 kW / 35 A	11 kW / 44 A	15 kW / 58 A	19 kW / 65 A	22 kW / 80 A
18.5 kW / 35 A	22 kW / 40 A	30 kW / 52 A	37 kW / 65 A	45 kW / 80 A
18.5 kW / 27 A	22 kW / 40 A	30 kW / 52 A	37 kW / 65 A	45 kW / 75 A
18.5 kW / 22 A	22 kW / 32 A	30 kW / 41 A	37 kW / 52 A	45 kW / 60 A
18.5 kW / 18 A	22 kW / 26 A	30 kW / 34 A	37 kW / 43 A	45 kW / 50 A
50	60	115	115	115
2 HP / 24A	3HP / 34 A	5 HP / 56 A	5 HP / 56 A	7.5 HP / 80 A
5 HP / 28 A	7.5 HP / 40 A	10 HP / 50 A	10 HP / 50 A	15 HP / 68 A
10 HP / 28 A	15 HP / 42 A	20 HP / 54 A	20 HP / 54 A	25 HP / 68 A
20 HP / 27 A	20 HP / 27 A	30 HP / 40 A	40 HP / 52 A	50 HP / 65 A
30 HP / 32 A	30 HP / 32 A	40 HP / 41 A	50 HP / 52 A	60 HP / 62 A
50	60	115	115	115
2NO+2NC	2NO+2NC	2NO+2NC	2NO+2NC	2NO+2NC
1.6	1.6	1.6	1.6	1.6
0.95	0.95	0.95	0.95	0.95
16	16	16	16	16
A600, Q300	A600, Q300	A600, Q300	A600, Q300	A600, Q300
6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
1200	1200	1200	1200	1200

Techna CONTACTORS AND OVERLOADS



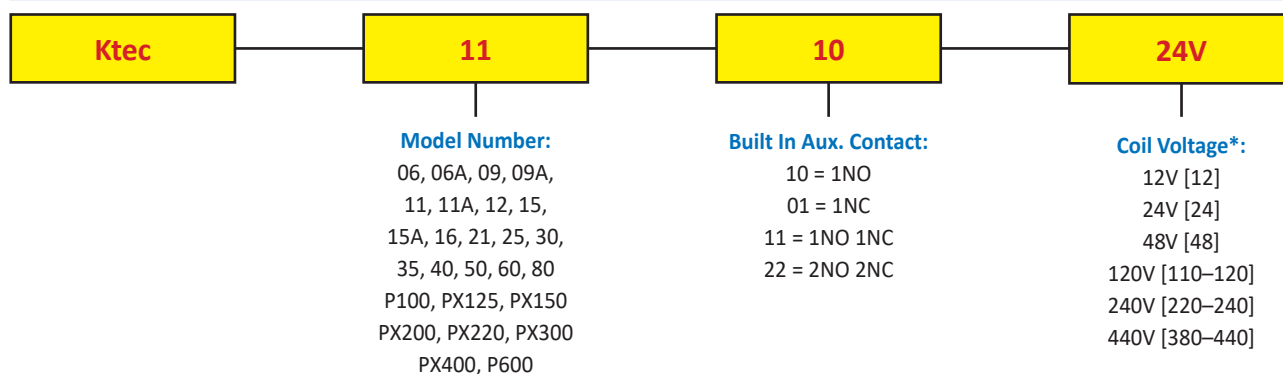
Contactor Model			KtecP100	KtecPX125	KtecPX150	KtecPX200	KtecPX220
Corresponding Overload			OtecP150	OtecP150	OtecP150	OtecPX220	OtecPX220
IEC60947-4-1 EN60947-4-1 DIN VDE 0660	Power Rating AC3 (kW/A)	240V	30 kW / 105 A	37 kW / 135 A	45 kW / 165 A	55 kW / 200 A	65 kW / 220 A
		380V	60 kW / 105 A	75 kW / 130 A	90 kW / 160 A	110 kW / 190 A	120 kW / 220 A
		440V	60 kW / 105 A	75 kW / 130 A	90 kW / 160 A	110 kW / 190 A	120 kW / 220 A
		550V	60 kW / 85 A	75 kW / 105 A	90 kW / 130 A	110 kW / 150 A	132 kW / 180 A
		660V	60 kW / 70 A	75 kW / 90 A	90 kW / 110 A	110 kW / 125 A	132 kW / 150 A
	Current AC1 (A)		150	170	225	275	315
UL508 CSA-C22.2	Power Rating AC3 (HP/A)	Single Phase	110-120V	-	-	-	-
		220-240V	-	-	-	-	
		220-240V	30 HP / 80 A	50 HP / 130 A	60 HP / 154 A	75 HP / 192 A	75 HP / 192 A
		440-480V	60 HP / 77 A	100 HP / 124 A	125 HP / 156 A	150 HP / 180 A	150 HP / 180 A
		550-600V	60 HP / 62 A	100 HP / 99 A	125 HP / 125 A	150 HP / 144 A	150 HP / 144 A
	Current AC1 (A)		150	170	225	275	315
Auxiliary Contacts			2NO+2NC	2NO+2NC	2NO+2NC	2NO+2NC	2NO+2NC
IEC60947-4-1 EN60947-4-1	Utilisation Category AC12	220-250V	1.6	3.3	3.3	3.3	3.3
		380-440V	0.95	1.6	1.6	1.6	1.6
		I _{th} (A)	16	16	16	16	16
UL			A600, Q300	A600, Q300	A600, Q300	A600, Q300	A600, Q300
Mechanical Life			6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
Electrical Life			1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Maximum Ops/hr			1200	1200	1200	1200	1200

Techna CONTACTORS AND OVERLOADS



Contactor Model			KtecPX300	KtecPX400	KtecP600
Corresponding Overload			OtecPX400	OtecPX400	OtecP600
IEC60947-4-1 EN60947-4-1 DIN VDE 0660	Power Rating AC3 (kW/A)	240V	90 kW / 300 A	110 kW / 400 A	160 kW / 620 A
		380V	160 kW / 300 A	220 kW / 400 A	315 kW / 620 A
		440V	185 kW / 300 A	250 kW / 400 A	315 kW / 600 A
		550V	185 kW / 263 A	250 kW / 360 A	315 kW / 500 A
		660V	200 kW / 220 A	280 kW / 305 A	–
Current AC1 (A)		500	635	660	
Auxiliary Contacts			2NO+2NC	2NO+2NC	2NO+2NC
IEC60947-4-1 EN60947-4-1	Utilisation Category AC15	220V	3.3	3.3	1.6
		380V	1.6	1.6	0.95
		I _{th} (A)	10	10	16
UL			A600, Q300	A600, Q300	A600, Q300
Mechanical Life			6,000,000	6,000,000	6,000,000
Electrical Life			1,200,000	1,200,000	1,200,000
Maximum Ops/hr			1200	1200	1200

Ktec Contactors Ordering Scheme



* For additional coil codes see next page

Techna CONTACTORS AND OVERLOADS

Ktec AC Coil Voltage Options

Voltage	AC 12V	AC 24V*	AC 48V*	AC 110V
Coil Rating	12V 50Hz	24V 50Hz	48-50V 50Hz	100V 50Hz
	12V 60Hz	24V 60Hz	48-50V 60Hz	100-110V 60-Hz
Voltage	AC 120V*	AC 127V	AC200V	AC220V
Coil Rating	110-120V 50Hz	125-127V 50Hz	200V 50Hz	200-220V 50Hz
	115-120V 60Hz	127V 60Hz	200-220V 60Hz	220V 60Hz
Voltage	AC 230V	AC 240V*	AC 260V	AC 380V
Coil Rating	230V 50Hz	220-240V 50Hz	240-260V 50Hz	346-380V 50Hz
	230-240V 60Hz	240-260V 60Hz	260-260V 60Hz	380V 60Hz
Voltage	AC 440V*	AC 480V	AC 550V	
Coil Rating	400V 50Hz	415-440V 50Hz	500V 50Hz	
	400-440V 60Hz	460-480V 60Hz	500-550V 80Hz	

NOTE: 12 & 24V not available for KtecP300 and above.

NOTE: 12, 24 & 48V not available for KtecP600

* Standard ratings.

Ktec AC Coil Parameters

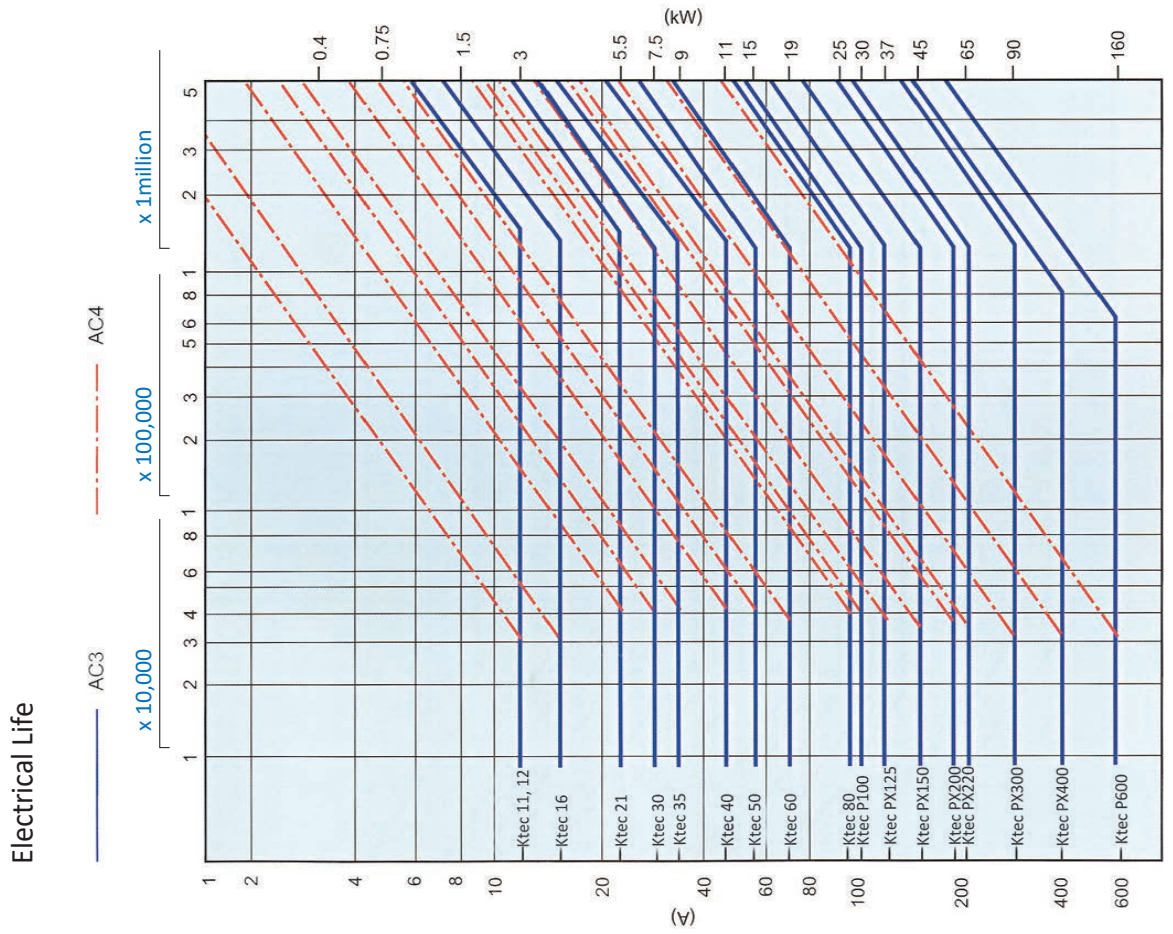
		Ktec06 Ktec09	Ktec11 Ktec15	Ktec12	Ktec16 to Ktec30	Ktec35 to Ktec40	Ktec50 to Ktec80	KtecP100	KtecPX125 KtecPX150	KtecPX200 KtecPX220	KtecPX300 KtecPX400
(VA)	Coil Inrush	25	55	55	55	72	250	319	370	440	700
	Coil Constant	5	11	11	11	12	28	36	42	50	50
Power (W)		1.6	2.5	2.5	2.5	3	7	11	10	12	7
x Ue	Pull In	55-70%	55-68%	55-68%	59-70%	60-75%	63-75%	65-75%	75-80%	75-80%	65-80%
	Drop Out	35-50%	34-48%	34-48%	36-52%	40-57%	40-57%	40-55%	40-55%	40-60%	20-50%
Switching Time	NC	5-12	5-12	4-11	6-14	6-13	6-13	18-28	9-20	10-19	22-37
	NO	6-15	10-18	10-18	10-18	12-20	12-20	22-32	15-24	17-25	25-40
Pull In (ms)	Main	6-15	10-18	10-18	10-18	12-20	12-20	22-32	10-20	12-27	30-45
Switching Time	NC	6-15	12-20	9-18	9-19	10-17	10-17	50-100	9-18	10-20	40-60
	NO	5-12	8-15	4-13	6-14	5-12	5-12	48-98	7-15	7-18	31-51
Drop Out (ms)	Main	5-12	8-15	4-13	6-14	5-12	5-12	46-96	7-15	7-20	30-50

Techna CONTACTORS AND OVERLOADS

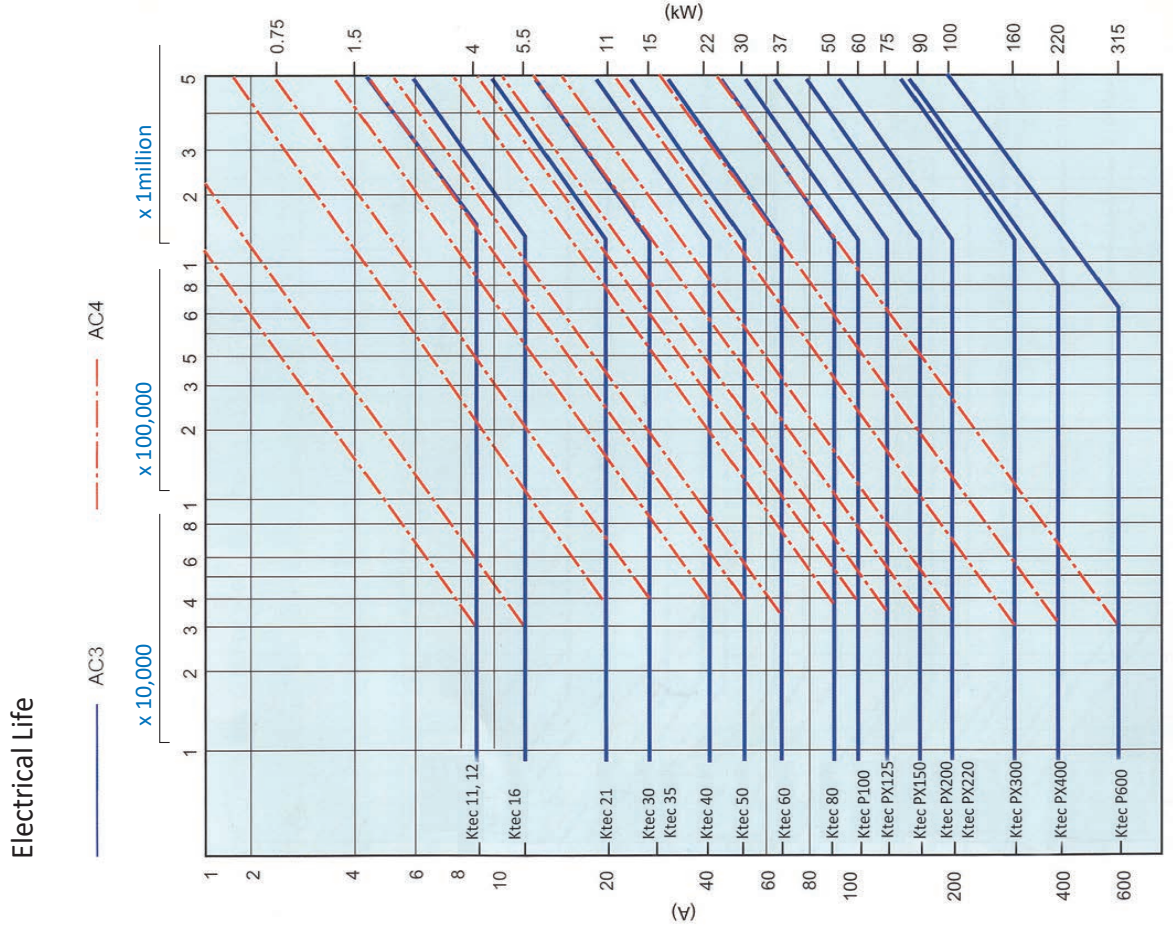
Ktec Ratings for DC Loads

Model	DC(V)	Number of Poles in Series			
		Utilization Category DC-1 (A) Switching of Resistive Loads (L/R ≤ 1 ms)		Utilization Category DC2 - DC4 (A) Shunt and Series Motors (L/R ≤ 15 ms)	
		2P	3P	2P	3P
Ktec11/11A, Ktec15/15A	24	12	12	12	12
	48	12	12	6	10
	110	10	12	4	8
	220	7	12	1.2	4
Ktec16, Ktec21, Ktec25	24	20	20	20	20
	48	20	20	15	20
	110	15	20	8	15
	220	10	20	2	8
Ktec30, Ktec35, Ktec40	24	35	35	35	35
	48	35	35	20	30
	110	25	35	10	20
	220	12	30	3	10
Ktec50, Ktec60	24	40	50	45	50
	48	40	50	25	35
	110	35	50	15	30
	220	15	40	3.5	12
Ktec80	24	65	80	65	80
	48	65	80	40	60
	110	50	80	20	50
	220	20	60	5	20
KtecP100	24	100	100	100	100
	48	100	100	60	90
	110	80	100	40	80
	220	50	80	30	50
KtecPX125	24	120	120	120	120
	48	100	120	60	90
	110	80	100	40	80
	220	50	80	30	50
KtecPX150	24	150	150	150	150
	48	120	150	100	130
	110	100	150	80	120
	220	100	150	60	80
KtecPX200	24	180	180	180	180
	48	180	180	150	180
	110	150	180	120	150
	220	150	180	80	100
KtecPX220	24	220	220	220	220
	48	180	220	150	220
	110	150	220	120	150
	220	150	220	80	100

Life-Cycle Selection Chart - 200-220V



Life-Cycle Selection Chart - 380-440V

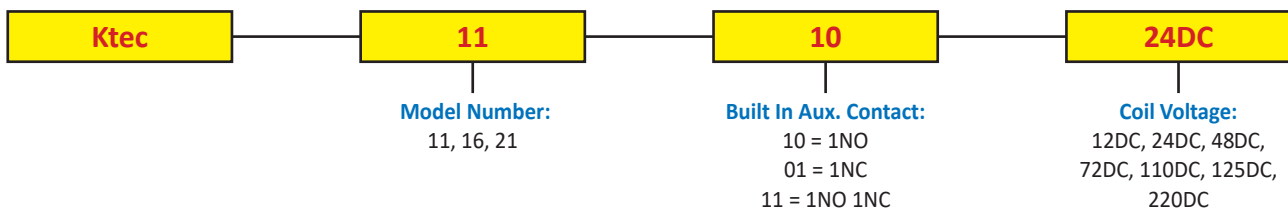


DC Coil Contactors



Contactor Model			Ktec11 DC	Ktec16 DC	Ktec21 DC
Corresponding Overload			Otec15	Otec40	Otec40
IEC60947-4-1 EN60947-4-1 DIN VDE 0660	Power Rating AC3 (kW/A)	240V	3.5 kW / 13 A	4.5 kW / 18 A	5.5 kW / 24 A
		380V	5.5 kW / 12 A	7.5 kW / 18 A	11 kW / 21 A
		440V	5.5 kW / 12 A	7.5 kW / 16 A	11 kW / 21 A
		550V	5.5 kW / 9 A	7.5 kW / 13 A	11 kW / 17 A
		660V	5.5 kW / 7 A	7.5 kW / 9 A	11 kW / 14 A
	Current AC1 (A)		20	30	32
UL508 CSA-C22.2	Power Rating AC3 (HP/A)	Single Phase			
		110-120V	0.5 HP / 9.8 A	1 HP / 16 A	2 HP / 24 A
		220-240V	2 HP / 10 A	3 HP / 17 A	3 HP / 17 A
	3-Phase	220-240V	3 HP / 9.6 A	5 HP / 15.2 A	7.5 HP / 22 A
		440-480V	7.5 HP / 11 A	10 HP / 14 A	15 HP / 21 A
		550-600V	10 HP / 11 A	10 HP / 11 A	15 HP / 17 A
Current AC1 (A)		24	30	35	
Auxiliary Contacts			1NO or 1NC	1NO+1NC	1NO+1NC
IEC60947-4-1 EN60947-4-1	Utilisation Category AC12	220-250V	1.6	1.6	1.6
		380-440V	0.95	0.95	0.95
		I _{th} (A)	16	16	16
UL			A600	A600, P600	A600, Q300
Mechanical Life			6,000,000	6,000,000	6,000,000
Electrical Life			1,200,000	1,200,000	1,200,000
Maximum Ops/hr			1200	1200	1200

Ktec DC Contactors Ordering Scheme



Techna CONTACTORS AND OVERLOADS

Ktec DC Coil Parameters

Voltage		12V	24V	48V	72V	110V	125V	220V
Coil Current (mA)		350	175	88	58	48	45	24
Power Consumption (W)		4.2	4.2	4.2	4.2	5.6	5.6	5.6
		Ktec11 DC		Ktec16 DC		Ktec21 DC		
Ue	Pull In	60-80%		60-80%		60-80%		
	Drop Out	10-30%		10-30%		10-30%		
Switching Time	NC	35-50		35-50		35-50		
	NO	40-70		40-70		40-70		
Pull In (ms)	Main	40-70		40-70		40-70		
Switching Time	NC	15-30		15-30		15-30		
	NO	10-25		10-25		10-25		
Drop Out (ms)	Main	10-25		10-25		10-25		

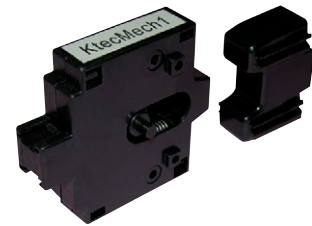
Ktec Accessories

Coil Suppressor Module



Description	Order Code
Suppressor for up to 240Vac coil - Fits Ktec06/09	KtecSUP240 Mini
Suppressor for up to 240Vac coil - Fits Ktec11 and above	KtecSUP240

Mechanical Interlocks



Order Code	Fits Contactors
KtecMech1	Ktec11, 15, 30, 35, 40, 50, 60
KtecMech2	Ktec12, 16, 21, 25
KtecMech5	Ktec80
KtecMech125	KtecPX125, PX150

Auxiliary Contact Blocks



Order Code	KtecAux20	KtecAux11	KtecAux02	KtecAux40	KtecAux31	KtecAux22	KtecAuxS11
Mounting	Front Clip-on			Front Clip-on			Side Clip-on
	2NO	1NO 1NC	2NC	4NO	3NO 1NC	2NO 2NC	1NO 1NC
Fits Contactors	Ktec11, Ktec12, Ktec 15, Ktec16, Ktec21, Ktec25, Ktec30, Ktec35, Ktec40, Ktec50, Ktec60, Ktec80						
AC 15	220V	1.6					
	380V	0.95					
I _{th} (A)	16						